

Title (en)

METHODS FOR SEPARATING A TOCOPHEROL FROM A TOCOPHEROL-CONTAINING MIXTURE AND COMPOSITIONS THEREOF

Title (de)

VERFAHREN ZUR ABTRENNUNG VON TOCOPHENOL AUS TOCOPHENOL ENTHALTENEN MISCHUNGEN UND VERBINDUNGEN

Title (fr)

PROCEDES SERVANT A SEPARER UN TOCOPHEROL D'UN MELANGE CONTENANT DU TOCOPHEROL, ET COMPOSITIONS
AFFERENTES

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Abstract (en)

[origin: WO0043095A2] The invention relates to a method for separating tocopherol from a first tocopherol admixture by heating the first tocopherol admixture composed of at least one tocopherol, a fatty acid, and an esterifying compound to esterify the fatty acid to produce a second tocopherol admixture composed of the tocopherol, the esterified fatty acid, and the unesterified fatty acid; distilling the second tocopherol admixture with the esterified fatty acid to remove the unesterified fatty acid from the second tocopherol admixture to produce a third tocopherol admixture composed of the tocopherol, with substantially removed unesterified fatty acid; distilling the third tocopherol admixture for a sufficient time and temperature to substantially remove the tocopherol from the third tocopherol admixture to produce a fourth tocopherol admixture composed of the removed tocopherol and a non-tocol component; and extracting the tocopherol from the fourth tocopherol admixture with an extraction solvent composed of a polar, organic solvent that is miscible with water to produce a two phase system composed of a first phase containing the majority of the extraction solvent and the second phase, wherein the selectivity of the extraction solvent for tocopherol with respect to the non-tocol component is greater than unity, and removing the first phase from the second phase, with the proviso that the extraction solvent is not a neat alcohol. The invention further relates to compositions produced by the methods of the present invention.

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